

## CLAIMS

1. A polymer film for food products, comprising a polyamide matrix and a component  
5 providing high permeability in respect to smoke substances and/or water vapors, wherein said  
component is a hydrophilic compound in an amount of 4.5-50.0 wt.%, forming in the  
polyamide base matrix a highly dispersed phase with a linear domain size of 0.1-3.0  $\mu\text{m}$  in a  
direction perpendicular to a plane of the film, and capable of mixing with at least 10 wt.% of  
water.

10 2. A polymer film for food products according to claim 1, wherein aliphatic  
polyamide and/or copolyamide and/or terpolyamide is used as the polyamide matrix.

3. A polymer film for food products according to claim 2, wherein polyamide 6 and/or  
copolyamide 6.66 and/or copolyamide 69 and/or copolyamide 612 and/or terpolyamide 6/66.9  
and/or terpolyamide 6/66.12 is used as the polyamide matrix.

15 4. A polymer film for food products according to any one of claims 1-3, wherein  
polymers selected from homopolymers and/or copolymers of vinylpyrrolidone, vinyl alcohol,  
alkyloxazoline, alkylene glycols, acrylamide, alkylene oxides, acrylic acid, metacrylic acid,  
maleic anhydride, vinyl alcohol ethers, vinyl alcohol esters, and also cellulose ethers are used  
as the hydrophilic compound.

20 5. A polymer film for food products according to claim 4, wherein among said  
homopolymers and/or copolymers, those are used which are water-soluble;

6. A polymer film for food products according to any one of claims 1-3, wherein  
water-soluble low-molecular substances are used as the hydrophilic compound.

25 7. A polymer film for food products according to claim 6, wherein said substances  
selected from inorganic salts, salts with an organic anion and an inorganic cation are used as  
the low-molecular substances.

8. A polymer film for food products according to any one of claims 1-7, wherein said  
film includes plasticizers and/or dyes and/or pigments and/or antiblocking and/or  
technological additives.

30 9. A polymer film for food products according to any one of claims 1-8, wherein said  
film is made unoriented.

10. A polymer film for food products according to any one of claims 1-8, wherein  
said film is made with single-axis orientation.

11. A polymer film for food products according to any one of claims 1-8, wherein said film is made with biaxial orientation.

12. A packaging from a polymer film for food products, which packaging is a tubular casing or packet, wherein it is made of a polymer film according to any one of claims 1-11.